MY16MADI64

Installation Manual for Yamaha Product`s

DM2000, 02R96, PM5D, DME64, DM1000,
M7CL, DME32 & DIO8

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Safety information

Please carefully read the following safety information before commencing installation of the MY16MADI64

Failure to follow the listed safety information may lead to severe or even fatal injury

Attention! The power supply must always be disconnected at the mains before any installation work is carried out !

Please follow these precautions, to avoid accidents or injury, or any damage to this appliance or other appliances or property.

- ! Take care to avoid contact with any sharp metal edges or protrusions.
- ! The MY16MADI64 is sensitive to static charge.Before installation work commences you are advised to discharge any static electricity from your body
- ! The equipment contains no user servicable components,
- ! Do not expose the MY16MADI64 to moisture or operation in humid conditions,this may lead to a malfunction,or indeed severly damage the equipment.

Audio-Service GmbH cannot be held responsable for loss of data, damage to property or any injuries, which may occur through improper operation or handling

Upon delivery please inform your dealer or Audio-Service GmbH, Hamburg, immediately over any transportation damage, shortfalls,or any apparent malfunction of the equipment.

MADI Installation for Yamaha DM2000

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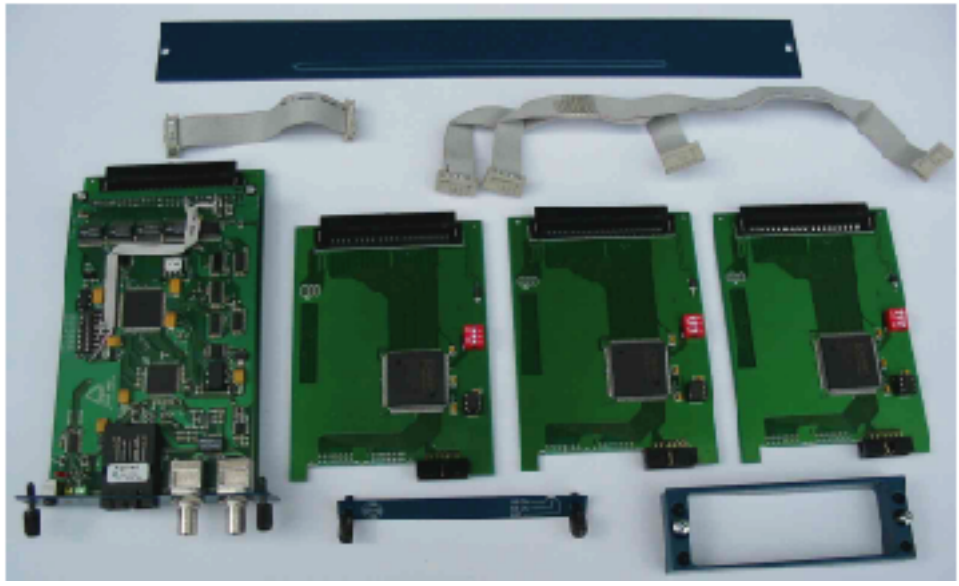

Complete Madi Kit for 64 Channels

Step 1

Remove Slotpanel 1-4 for 64 Channel Madi installation

Place the Frame on top of Slot4

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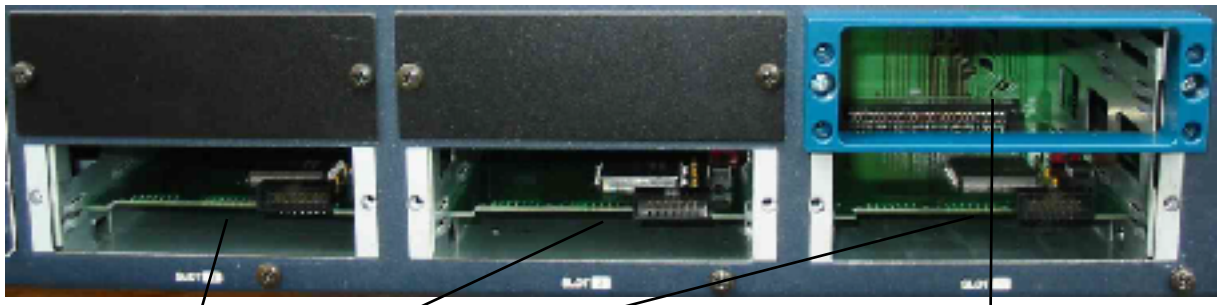
Yamaha DM2000 MADI Installation

Step 2



Insert the MADI Slavecards in Slots 1-3

Insert the MADI Mastercard in Slot 4

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Yamaha DM2000 MADI Installation

Step 3

Connect Ribboncable to Slot 1 Slavecard
Channel 1-16 I/O

Connect Ribboncable to Slot 2 Slavecard
Channel 17-32 I/O

Connect Ribboncable to Slot 3 Slavecard
Channel 33-48 I/O

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Yamaha DM2000 MADI Installation

Ribboncable installed

Step 4

Close the Slots 1-3 with the large blue Slotcover

Close the Mastercard Slot with the smal blue panel

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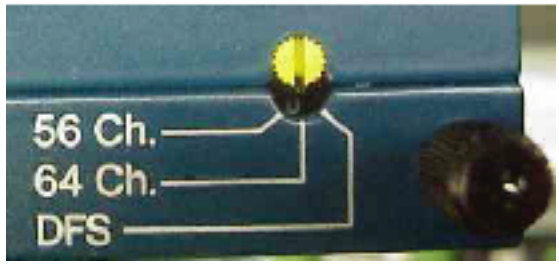
Yamaha DM2000 MADI Installation

Installation finished

Modeswitch



56Ch.= 56 Audiochannel (Standard MADI Mode @ 44,1 & 48kHz)
64Ch.= 64 Audiochannel (Extendet MADI Mode @ 44,1 & 48kHz)
DFS = 32 Audiochannel (96kHz Frame Mode)

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Yamaha 02R96, PM5D & DME64 MADI Installation

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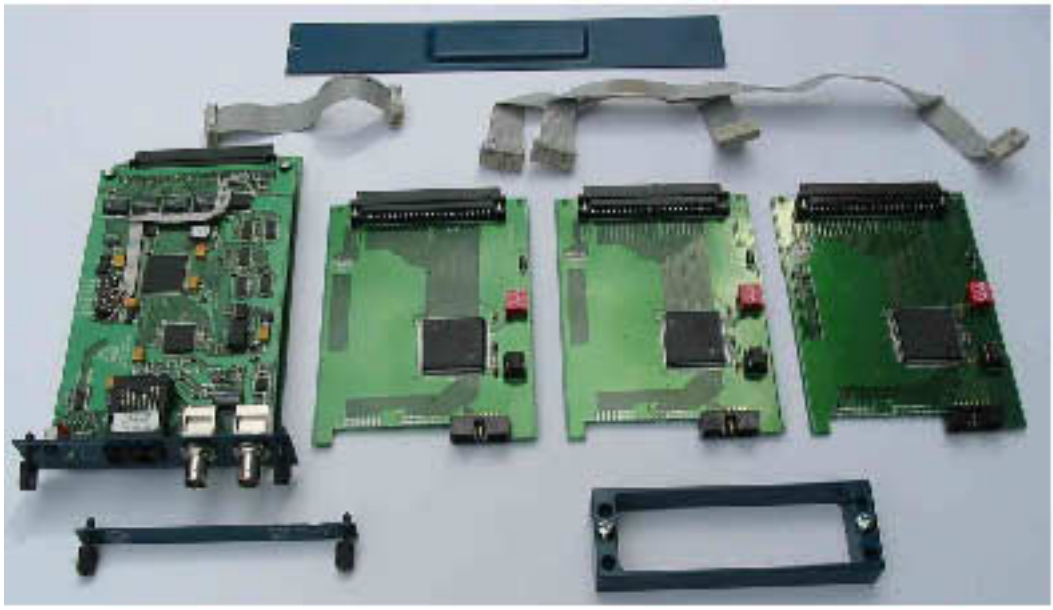
Yamaha 02R96, PM5D & DME64 MADI Installation



Step 1

Remove Slotpanel 1-4 for 64 (56) Channel Madi installation

Place the Frame on top of Slot4

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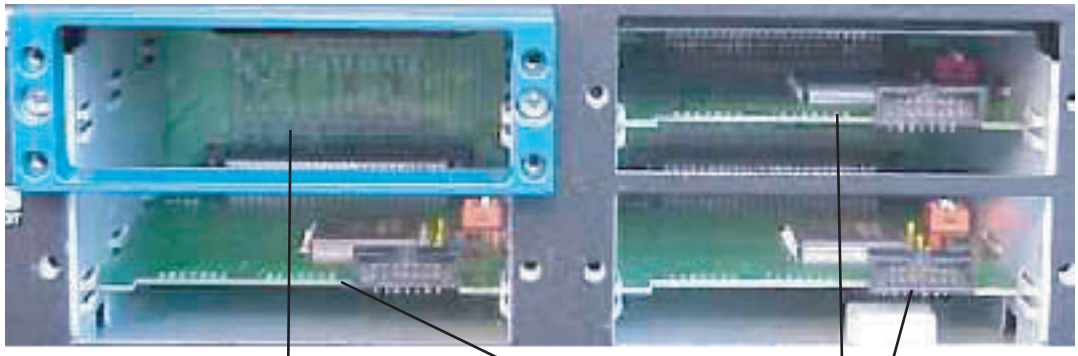
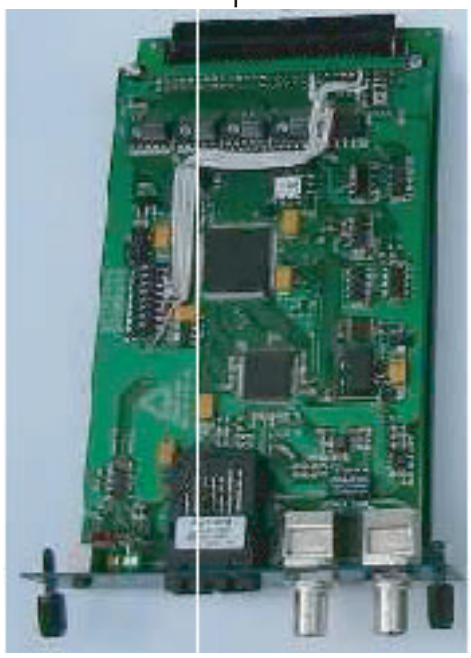
Yamaha 02R96, PM5D & DME64 MADI Installation

Step 2





Insert the MADI Mastercard in Slot 4

Insert the MADI Slavecards in Slots 1-3

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Yamaha 02R96, PM5D & DME64 MADI Installation

Step 3

Connect Ribboncable to Slot 1 Slavecard
Channel 1-16 I/O

Connect Ribboncable to Slot 2 Slavecard
Channel 17-32 I/O

Connect Ribboncable to Slot 3 Slavecard
Channel 33-48 I/O

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Yamaha 02R96, PM5D & DME64 MADI Installation

Ribboncable installed

Step 4

Close the Slots 1-3 with the medium blue Slotcover (covers two Slots)

Close the Mastercard Slot with the smal blue panel

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Yamaha 02R96, PM5D & DME64 MADI Installation

Installation finished

Modeswitch

56Ch.= 56 Audiochannel (Standard MADI Mode @ 44,1 & 48kHz)
64Ch.= 64 Audiochannel (Extendet MADI Mode @ 44,1 & 48kHz)
DFS = 32 Audiochannel (96kHz Frame Mode)

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MADI Installation for Yamaha DM1000

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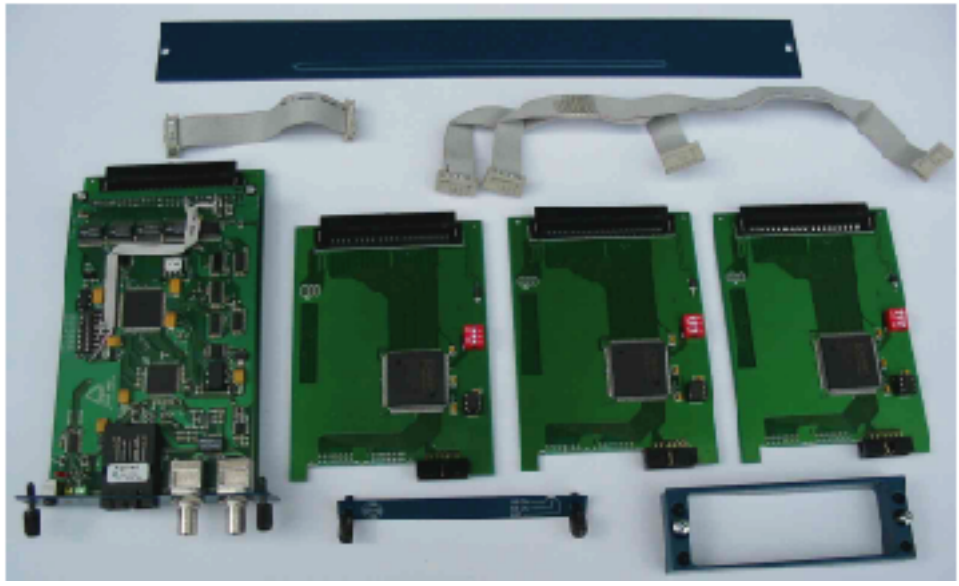

Complete Madi Kit for 64 Channels

For the installation in the Yamaha DM1000 only the Mothercard and one Slavecard is required, because of the DM1000 has two YAGDAI Slots, which means 32 Channels are available @48kHz and 16Ch@96kHz

Step 1

Remove Slotpanel 1-2 for 32 Channel Madi installation

Place the Frame on top of Slot1

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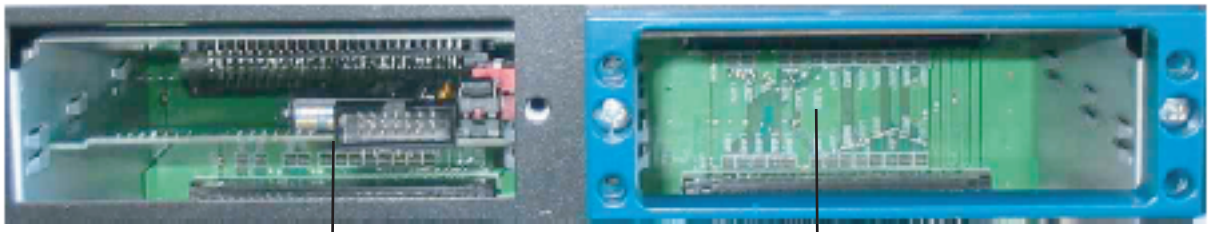
Yamaha DM1000 MADI Installation

Step 2



Insert the MADI Slavecard in Slots 2

Insert the MADI Mastercard in Slot 1

Note: Please set the DIPSWITCH 2 (located under the MADI Input board of the Mastercard) to the on position. (refer to the next page)

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MADI Installation for Yamaha M7CL48

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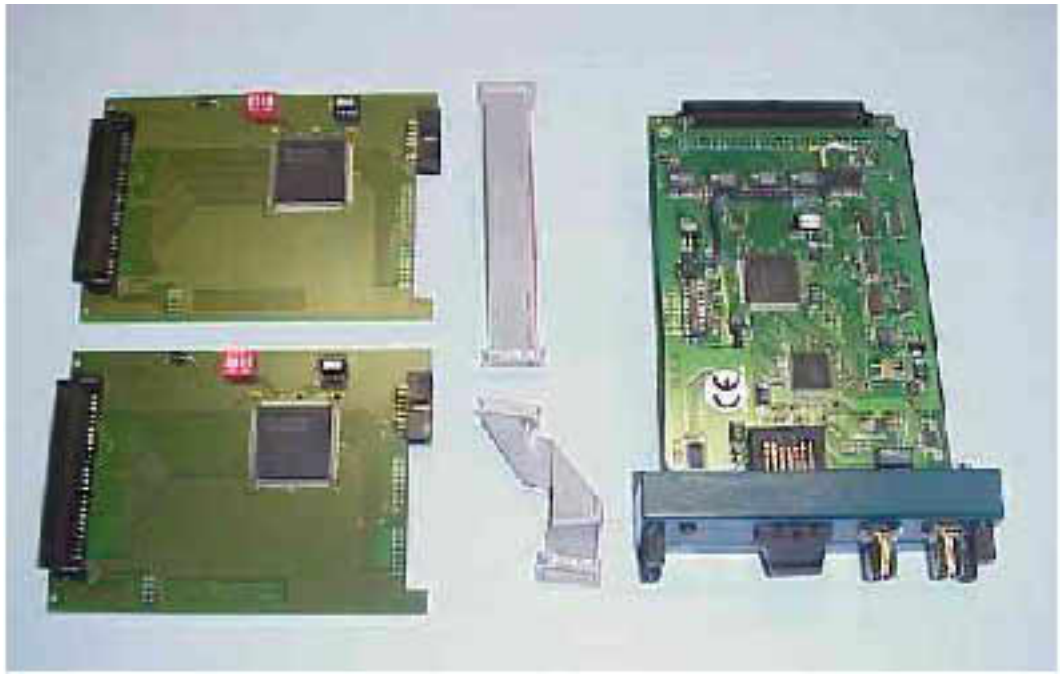
Yamaha M7CL48 MADI Installation



Complete Madi Kit for 48 Channels

Step 1

Remove Slotpanel 1-3 for 48 Channel Madi installation

Place the Frame on top of Slot3

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Yamaha M7CL48 MADI Installation

Step 2

Insert the MADI Mastercard in Slot 3

Insert the MADI Slavecards in Slots 1-2

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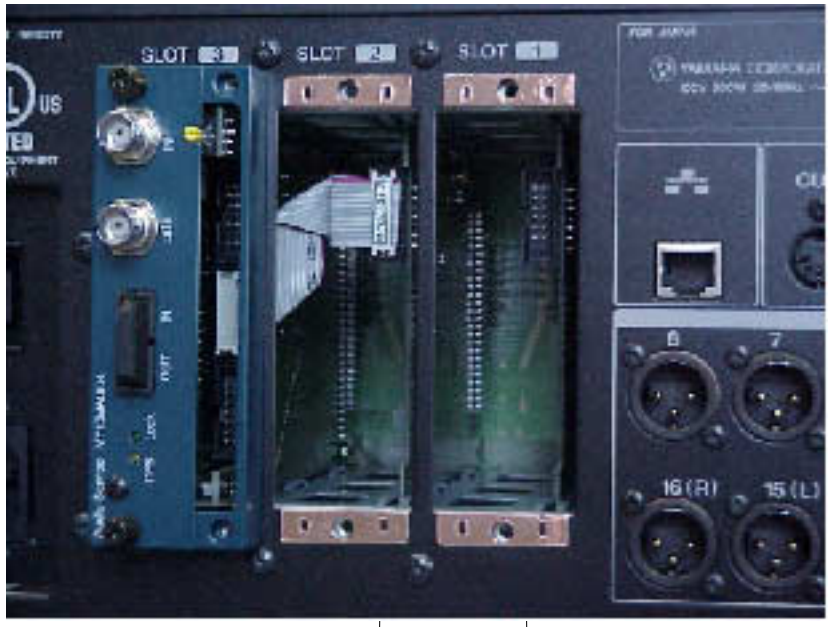
Yamaha M7CL48 MADI Installation

Step 3



Connect Ribboncable to Slot 1 Slavecard
Channel 1-16 I/O

Connect Ribboncable to Slot 2 Slavecard
Channel 17-32 I/O

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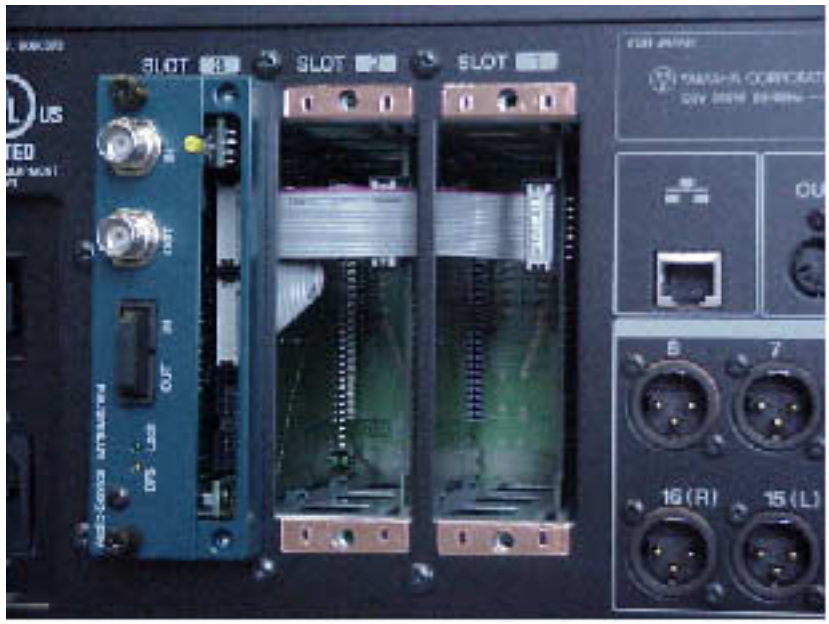
Yamaha M7CL48 MADI Installation

Ribboncable installed



Step 4

Close the Slots 1-2 with the original black Slotcover

Close the Mastercard Slot with the smal blue panel

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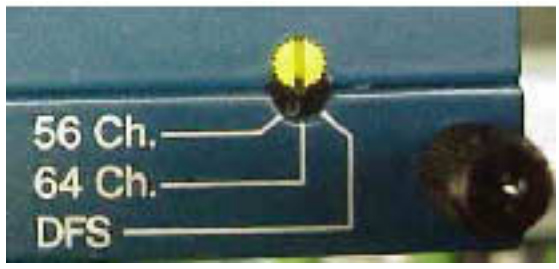
Yamaha M7CL48 MADI Installation

Installation finished

Modeswitch



56Ch.= 56 Audiochannel (Standard MADI Mode @ 44,1 & 48kHz)
64Ch.= 64 Audiochannel (Extendet MADI Mode @ 44,1 & 48kHz)
DFS = 32 Audiochannel (96kHz Frame Mode)

Note: The M7CL does not work in 96kHz (DFS) Mode!

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MADI Installation for Yamaha DME32

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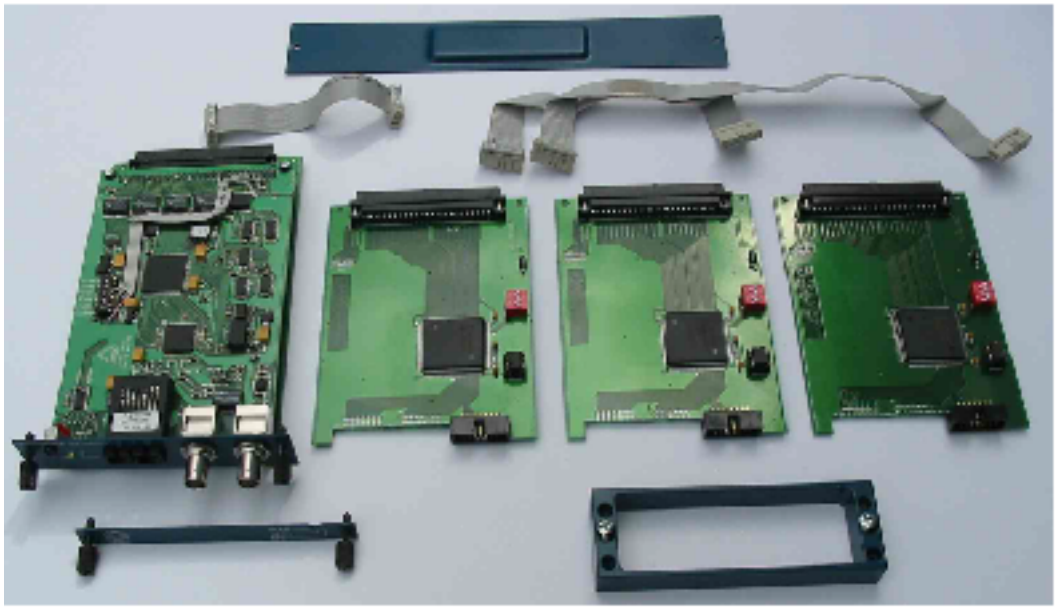
Yamaha DME32 MADI Installation



Step 1

Remove Slotpanel 1-4 for 32 Channel Madi installation

Place the Frame on top of Slot4

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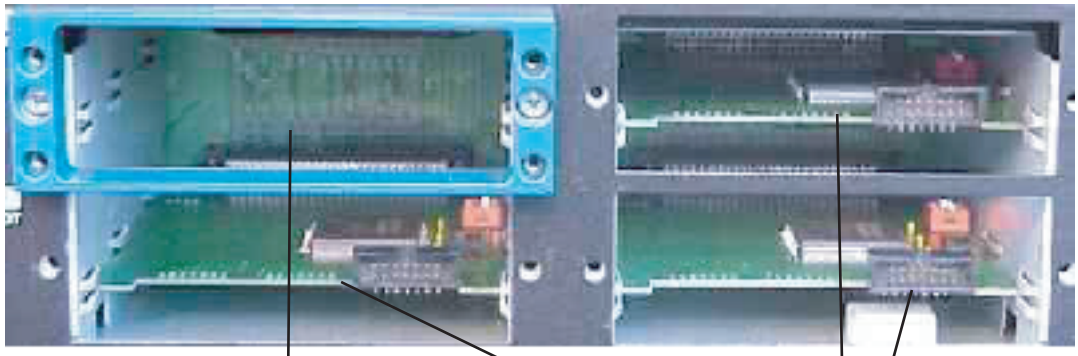
Yamaha DME32 MADI Installation

Step 2



Insert the MADI Mastercard in Slot 4

Insert the MADI Slavecards in Slots 1-3

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Yamaha DME32 MADI Installation

Step 3

Mastercard Channel 25-32 (57-64)

Connect Ribboncable to Slot 1 Slavecard
Channel 1-8 (33-40) I/O

Connect Ribboncable to Slot 2 Slavecard
Channel 9-16 (41-48) I/O

Connect Ribboncable to Slot 3 Slavecard
Channel 17-24 (49-56) I/O

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Yamaha DME32 MADI Installation

Ribboncable installed

Step 4

Close the Slots 1-3 with the medium blue Slotcover (covers two Slots)

Close the Mastercard Slot with the smal blue panel

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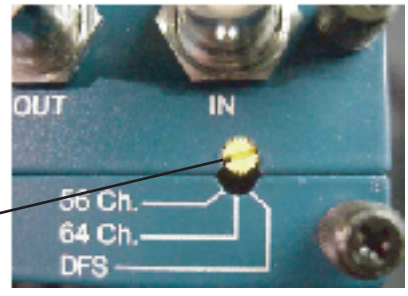
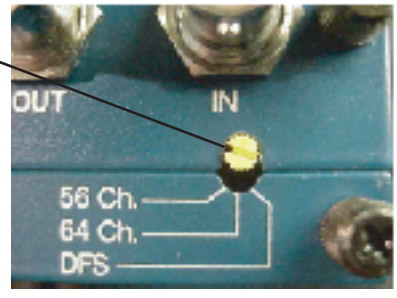
Yamaha DME32 MADI Installation

Installation finished

Modeswitch



DME32
Channel 1-32



DME32
Channel 33-64

Because of the DME32 handels up to 32I/O Channels one should know that the DME can use the Channels 1-32I/O (33-64 are bypassed) or Channels 33-64I/O (1-32 are bypassed), this means also cascadeing of two DME32 is possibile.
* The MADICARD´s are recognised as AES/EBU card`s in the DME32 Software!

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MADI Installation for Yamaha DIO8

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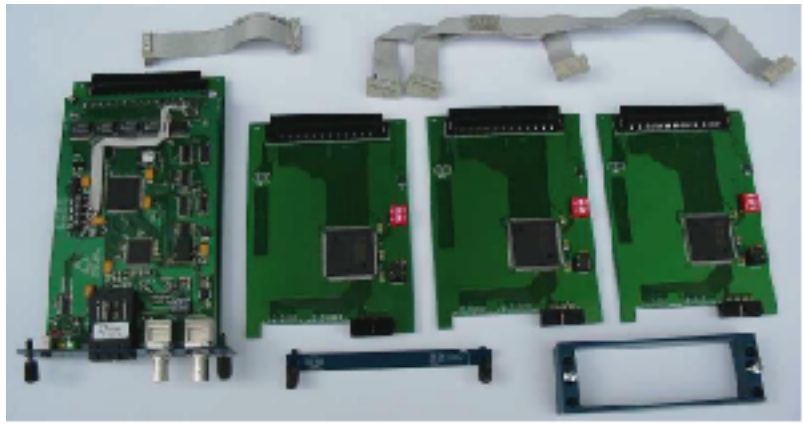
Yamaha DIO8 MADI Installation



Complete MADI Kit for 32 Channel

For 64 Channel Installation two MADI Kits are required

1. Step

Remove Slotpanel 1-4 for 1-32 Channel MADI installation
Remove Slotpanel 5-8 for 33-64 Channel MADI installation

Place the Frame on top of Slot4

Place the second Frame on top of Slot8

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Yamaha DIO8 MADI Installation

Step 2

Insert the MADI Mastercard in Slot 4 (Slot 8)

Insert the MADI Slavecards in Slots 1-3 (Slot 5-7)

The Ribboncables have to be installed in the smal gap between the Slots and the Backpannel of the DIO8

Connect Ribboncable to Slot 1 (Slot 5) Slavecard

Channel 1-8 I/O
(Channel 33-40 I/O)

Connect Ribboncable to Slot 2 Slavecard

Channel 9-16 I/O
(Channel 41-48 I/O)

Connect Ribboncable to Slot 3 Slavecard

Channel 17-24 I/O
(Channel 49-56 I/O)

Close the Mastercard Slot with the smal blue panel, for the remaining slots please use the original Yamaha panels.

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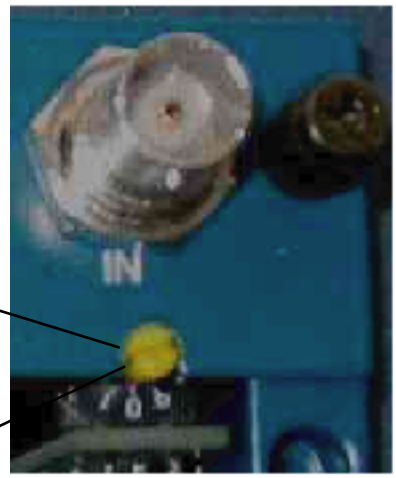
Yamaha DIO8 MADI Installation

Modeswitch setting



DIO8/DME32
Channel 33-64

DIO8/DME32
Channel 1-32

To support 64 Audio Channel in the DIO8 two MADI Sets have to be installed. The first Mastercard in Slot 4 Slavecards in Slot 1,2 & 3. Set the yellow switch in Channel 1-32 Mode.
The second Mastercard in Slot 8, Slavecards in Slot 5,6 & 7. Set the yellow switch in Channel 33-64 Mode.

MADICONNECTION: Connect MADI in from the second Mastercard with the source equipment (f.e. D5) The output from the second Mastercard with the input from the first Mastercard and the output of the first Mastercard with the destination (f.e. D5).

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PM1D DIGITAL I/O BOX

I think the PM1D is master (WCL) in the System.

Do you see the "input sync error" on all 8Slots, or only on the slavecard slots?
If only the slavecards show this error, please set
dipswitch 4 (located on the 3 slavecards) to the on position.
See attached PDF File.

What happens when you connect the MADI in with the MADI out of the MY16MADI,
does the PM1D still show "input sync error"?
Is the lock LED (green) steady on?
If the green LED is steady on, you should not see any "input sync error"

If the above is ok, try the next steps.

who is master in your system? If the PM1D is the master, please set the recorders
in Wordclock Slave Mode.

How does the green Led on the back of the MY16MADI show
1. is steady on (equipment is in sync)
2. is flashing (equipment is not in sync)

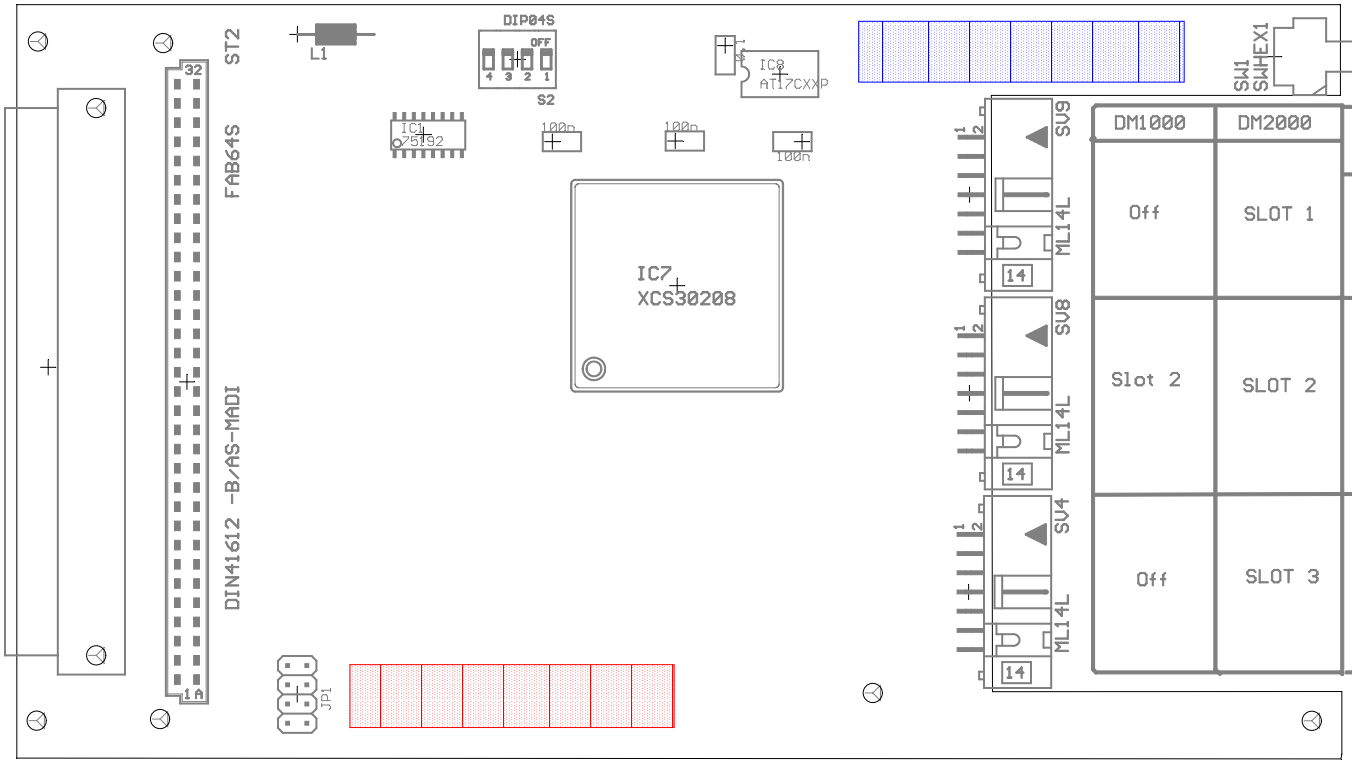
If the LED is flashing, please check the WCL Source of the recorder, may be the
recorder
needs to have an additional Wordclock connection and has to be synchronised through
the
WCL input.

If the problem still exsists after these checks, please let me know what recorder you
are using.

Dip Switch 1 -->	OFF	ON	OFF	ON
Dip Switch 2 -->	OFF	OFF	ON	ON
Mixer Type -->	- DM2000 - 02R96 - PM5D - DME - Di I/O Box	DM1000	M7CL	Free
Dip Switch 3 -->	ON Sub Code ON OFF Sub Code OFF			
Dip Switch 4 -->	ON Transparent (in <> out) OFF Generates (MY16MADI 64)			

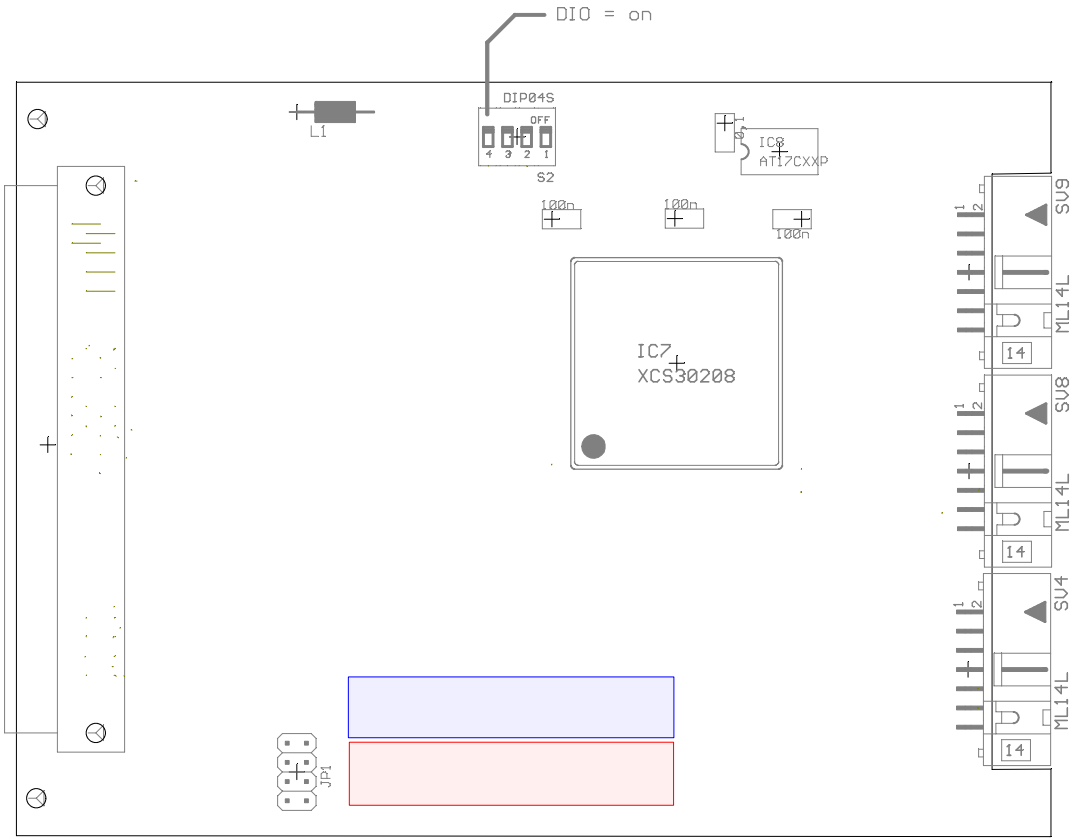
If Dip Switch 3 is switched OFF ,
then Dip Switch 4 has no function

Master Board



DM1000	DM2000	02R/96 PM5D DME64	DME 32	DIO	M7CL
Off	SLOT 1	SLOT 1	SLOT 1	SLOT 1 SLOT 5	SLOT 1
Slot 2	SLOT 2	SLOT 2	SLOT 2	SLOT 2 SLOT 6	SLOT 2
Off	SLOT 3	SLOT 3	SLOT 3	SLOT 3 SLOT 7	Off

Note 1 :On Slave Board`s all Dip Switches are switched to the OFF position ,
except when used in the Digital I/O unit (PM1D),
then set Dip Switch No.4 to the ON Position !


DIO = on
DIP04S
OFF
4 3 2 1
S2
L1
IC8
AT17CXXP
100n
100n
100n
IC7
XCS30208
SV9
SV8
SV4
ML14L
ML14L
ML14L
14
14
14
JP1

AUDIO-SERVICE

MY16MADI64 Technical Data

Standard	:	AES 10 (1995)
Connectors	:	BNC, 75 Ohm, Coaxial (MADI in, MADI out)
	:	Optical, Multimode 62,55, 125µm (MADI in, MADI out)
Audio Format	:	24bit, 44,1 & 48kHz up to 64 Channels, 96kHz 32 Channels

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Declaration of Conformity

Audio Service Ulrich Schierbecker GmbH
Schnackenburgallee 173
22525 Hamburg
Germany

declares under their sole responsibility that the product

MY16MADI64
(Multichannel Digital Audio Interface)

to which this declaration relates, is in conformity with the following standard(s) or other notmative document(s)

EN 55013/90 EN 55020/94 EN 6100-3-2/95

following the provision of the EMC directive.

89/336/EEC

Issued in Hamburg, the 03.09.2003

Ulrich Schierbecker
General Manager